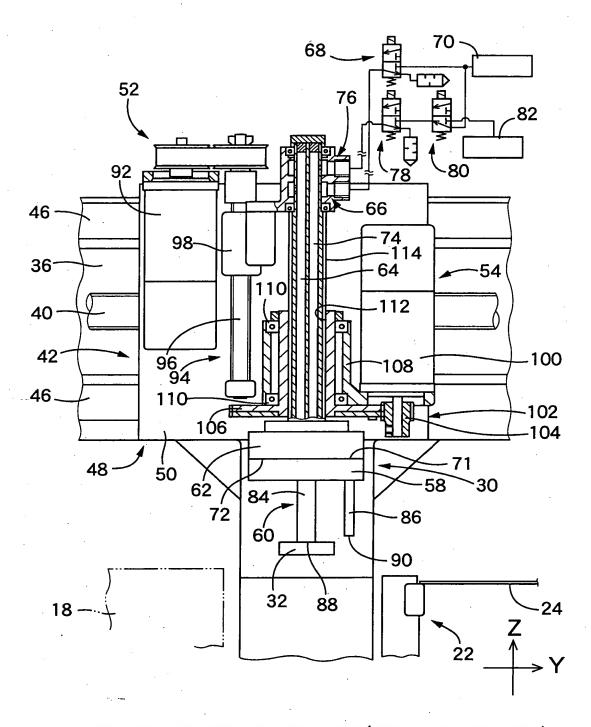
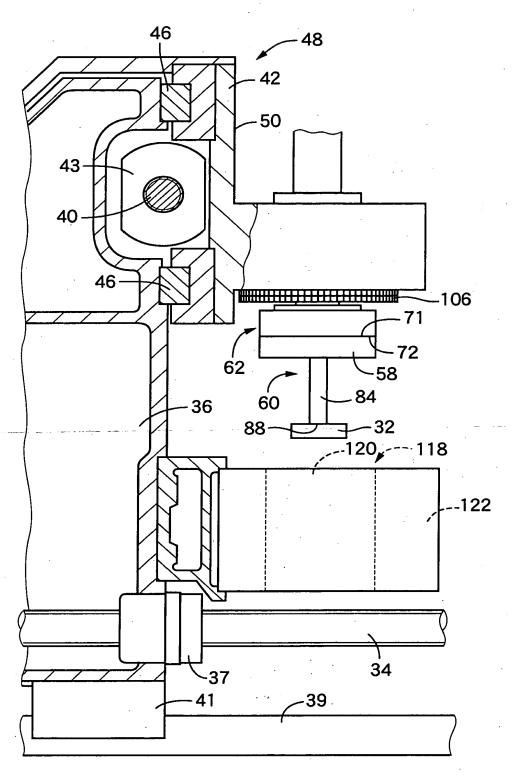


FIG. 2



70 NEGATIVE-PRESSURE SOURCE (VACUUM SOURCE) 82 POSITIVE-PRESSURE SOURCE

FIG. 3



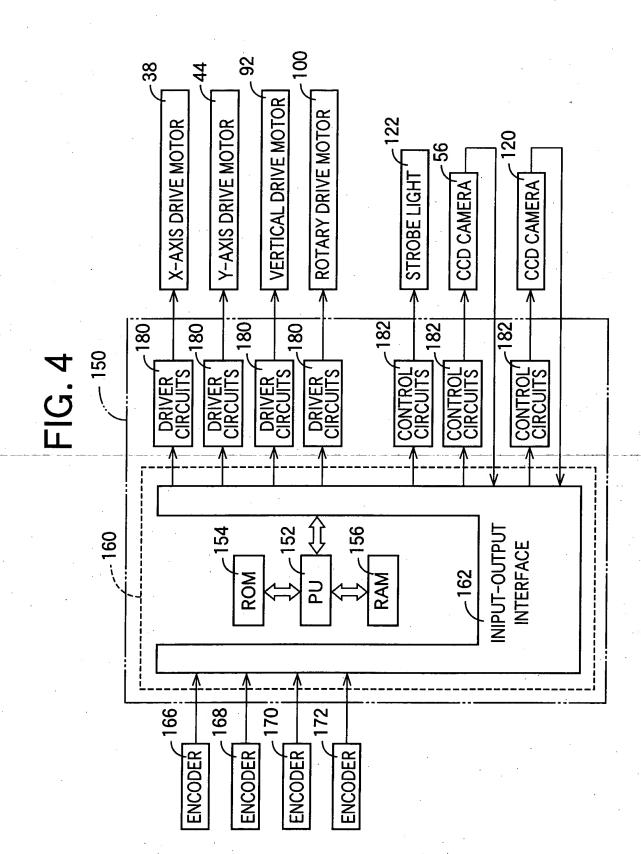
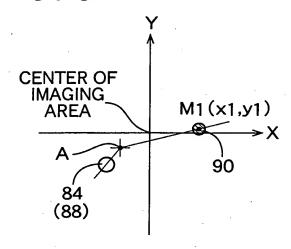


FIG. 5A

FIG. 5C



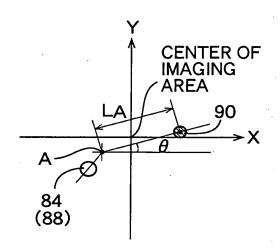


FIG. 5B

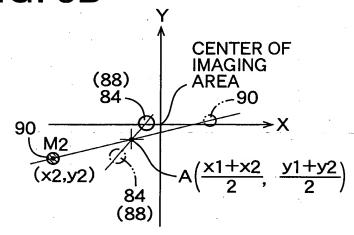


FIG. 5D

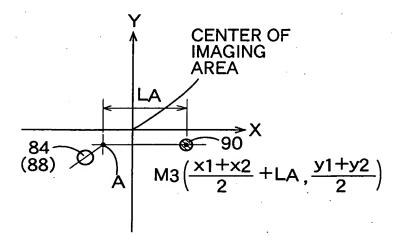
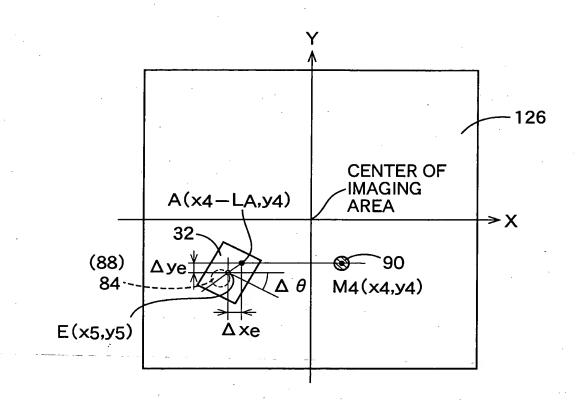


FIG. 6



DIGULARYO DE HOLL

FIG. 7

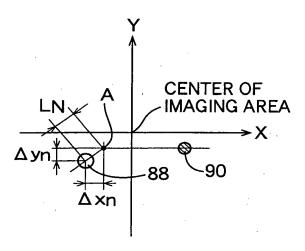


FIG. 8

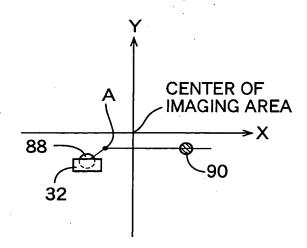
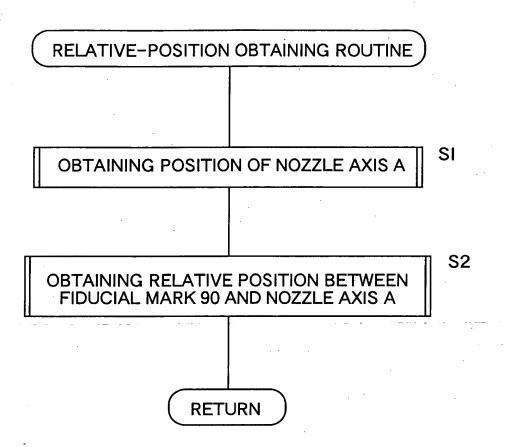


FIG. 9



ELECTRIC-COMPONENT MOUNTING ROUTINE

MOVING SUCTION NOZZLE 60 TO HOLD
ELECTRIC COMPONENT 32
(COMPENSATING POSITION OF SUCTION NOZZLE 60
FOR DETECTED BENDING OF SUCTION PIPE 84)

S11

TAKING IMAGES OF ELECTRIC COMPONENT 32
AND FIDUCIAL MARK 90, AND OBTAINING
CENTER POSITION ERROR AND ANGULAR POSITION ERROR
OF ELECTRIC COMPONENT HELD BY SUCTION NOZZLE 60
(AND DETERMINING LOCAL RADIAL PROJECTION OF
SUCTION PIPE 84 FROM PERIPHERY OF
ELECTRIC COMPONENT 32)

S12

MOUNTING ELECTRIC COMPONENT 32 ON BOARD 24 (COMPENSATING THE SUCTION NOZZLE POSITION FOR THE DETECTED CENTER POSITION ERROR AND ANGULAR POSITION ERROR OF ELECTRIC COMPONENT) **S13**

RETURN

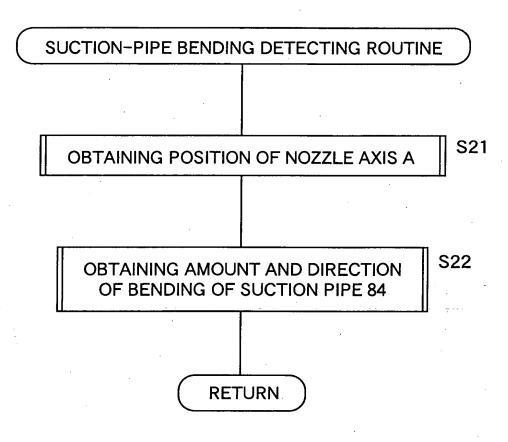


FIG. 12

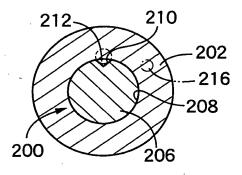


FIG. 13

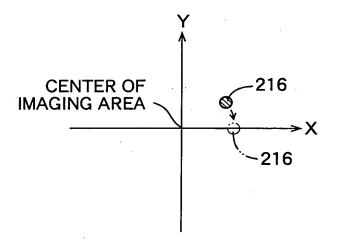


FIG. 14

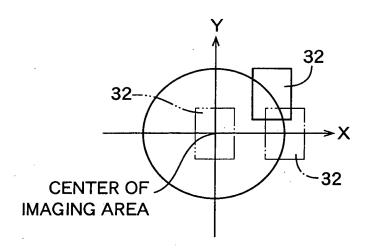
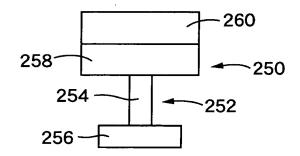
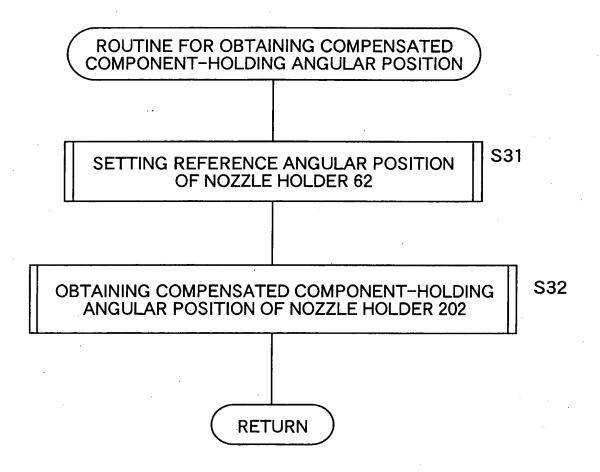


FIG. 17





ELECTRIC-COMPONENT MOUNTING ROUTINE

ESTABLISHING COMPENSATED COMPONENT-HOLDING ANGULAR POSITION OF NOZZLE HOLDER 202, AND HOLDING ELECTRIC COMPONENT 32 **S41**

TAKING IMAGES OF ELECTRIC COMPONENT 32 AND FIDUCIAL MARK 216, AND OBTAINING CENTER POSITION ERROR AND ANGULAR POSITION ERROR OF ELECTRIC COMPONENT 32 HELD BY SUCTION NOZZLE 200

S42

MOUNTING ELECTRIC COMPONENT 32 ON BOARD 24
(ROTATING SUCTION NOZZLE 200 FOR ANGULAR POSITION ERROR OF COMPONENT 32, AND COMPENSATING POSITION OF SUCTION NOZZLE FOR CENTER POSITION ERROR OF COMPONENT, AND FOR MOUNTING POSITION ERROR DUE TO INCLINATION OF AXIS OF NOZZLE HOLDER 202 IF COMPONENT-MOUNTING ANGULAR POSITION IS DIFFERENT FROM COMPONENT-HOLDING ANGULAR POSITION)

S43

RETURN

FIG. 18

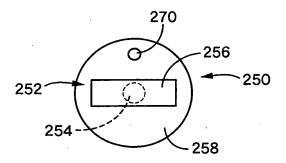


FIG. 19

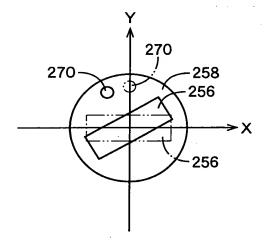
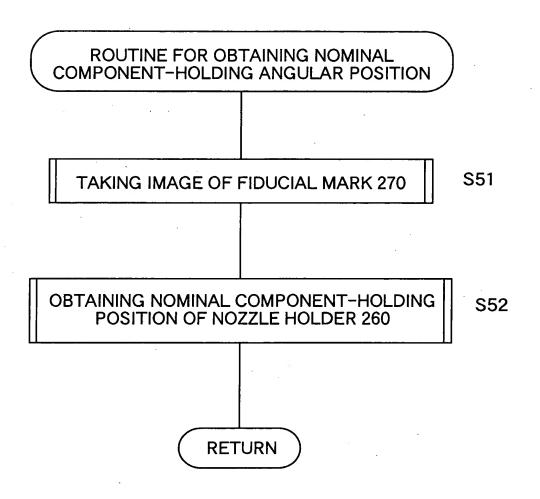


FIG. 20



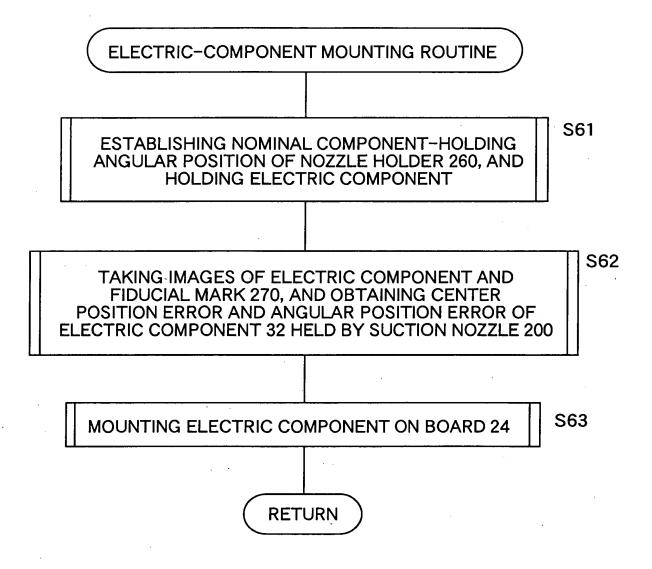


FIG. 22

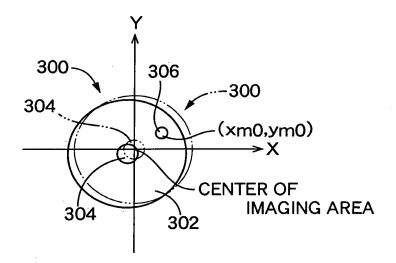


FIG. 23

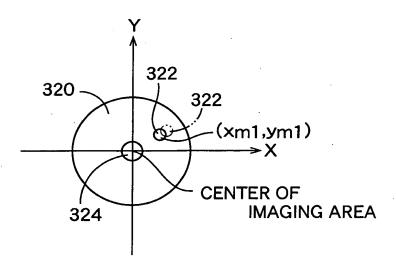


FIG. 24

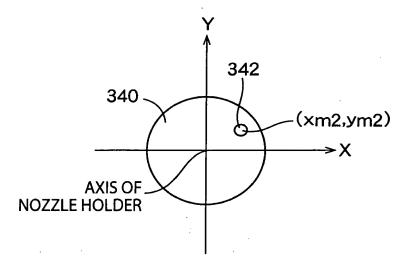


FIG. 25

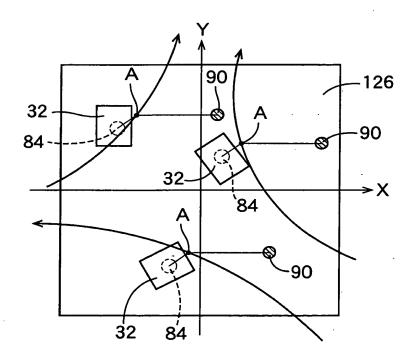


FIG. 26

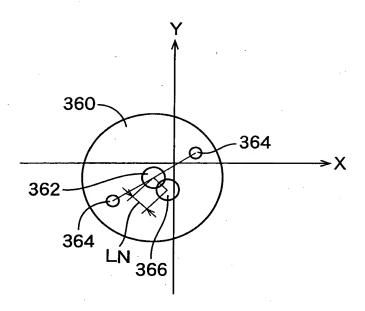


FIG. 27

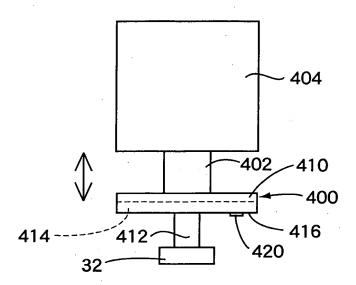


FIG. 28

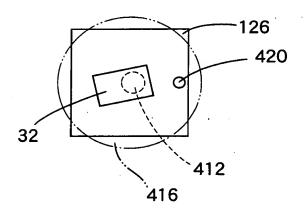


FIG. 29

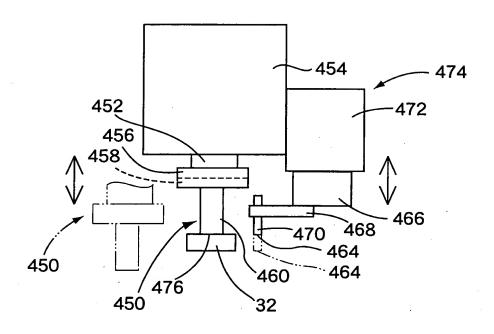


FIG. 30

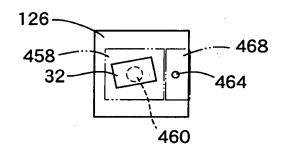


FIG. 31

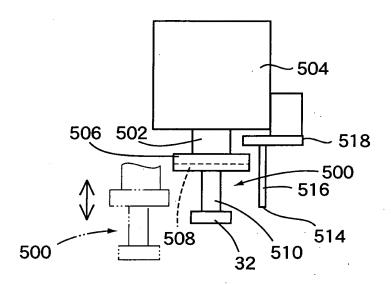


FIG. 32

